

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE092519\
 Data File : BE100562.D
 Acq On : 25 Sep 2019 18:28
 Operator : JU
 Sample : K4995-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-SW168-091819-1

Manual Integrations
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Quant Time: Sep 26 01:56:01 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE092019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 20 18:26:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	6051	0.40	ng	0.00
7) Naphthalene-d8	10.65	136	30810	0.40	ng	0.00
13) Acenaphthene-d10	14.49	164	20921	0.40	ng	0.00
19) Phenanthrene-d10	17.20	188	38756	0.40	ng	0.00
27) Chrysene-d12	21.38	240	52236	0.40	ng	0.01
34) Perylene-d12	23.86	264	57766	0.40	ng	0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.45	112	5001	0.35	ng	0.01
5) Phenol-d6	7.02	99	7301	0.38	ng	0.00
8) Nitrobenzene-d5	9.00	82	5936	0.33	ng	0.00
11) 2-Methylnaphthalene-d10	12.24	152	11933	0.26	ng	0.00
14) 2,4,6-Tribromophenol	15.96	330	1616	0.48	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	14339	0.19	ng	0.00
25) Fluoranthene-d10	19.24	212	100668	0.22	ng	0.01
29) Terphenyl-d14	19.83	244	25837	0.21	ng	0.00

Target Compounds					Qvalue	
9) Naphthalene	10.69	128	643065	2.013	ng	100
12) 2-Methylnaphthalene	12.31	142	129156	2.541	ng	100
16) Acenaphthylene	14.21	152	1049155	12.180	ng	99
17) Acenaphthene	14.54	154	72464	1.246	ng	95
18) Fluorene	15.52	166	315613	4.337	ng	# 86
23) Phenanthrene	17.26	178	4269762	39.539	ng	95
24) Anthracene	17.34	178	709288	7.803	ng	96
26) Fluoranthene	19.27	202	4584708m	35.206	ng	
28) Pyrene	19.63	202	6151467	40.928	ng	# 87
30) Benzo(a)anthracene	21.35	228	3191112	22.873	ng	# 88
31) Chrysene	21.41	228	3585183m	22.553	ng	
32) Bis(2-ethylhexyl)phthalate	21.29	149	140971	0.937	ng	# 95
33) Indeno(1,2,3-cd)pyrene	26.49	276	1789658	10.126	ng	98
35) Benzo(b)fluoranthene	23.10	252	3250223m	20.795	ng	
36) Benzo(k)fluoranthene	23.14	252	1010421m	5.587	ng	
37) Benzo(a)pyrene	23.75	252	2849786	19.543	ng	97
38) Dibenzo(a,h)anthracene	26.51	278	526381	3.466	ng	# 86
39) Benzo(a,h,i)perylene	27.31	276	2044818	12.891	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.86 min Scan# 434

Delta R.T. -0.00 min

Lab File: BE100562.D

Acq: 25 Sep 2019 18:28

Instrument :

BNA_E

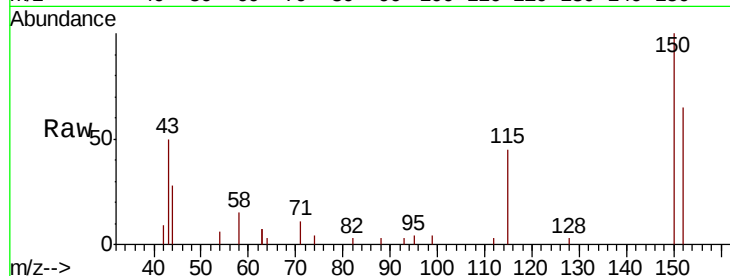
ClientSampleId :

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Tot Ion:	152	Resp:	6051
Ion	Ratio	Lower	Upper
152	100		
150	152.7	121.6	182.4
115	69.1	48.2	72.4

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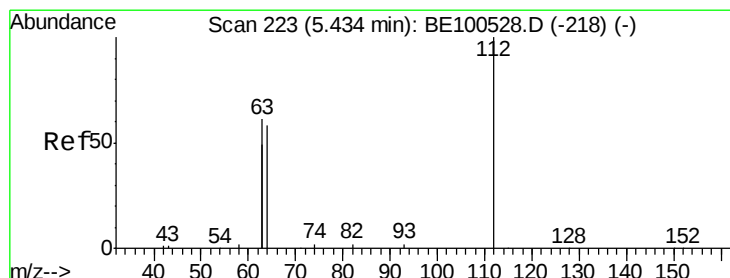
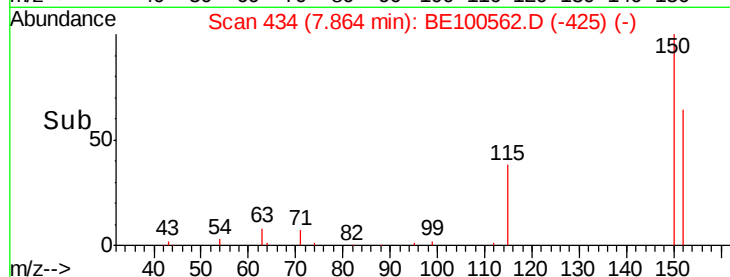
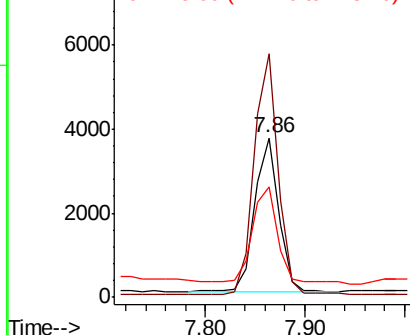


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol

Concen: 0.353 ng

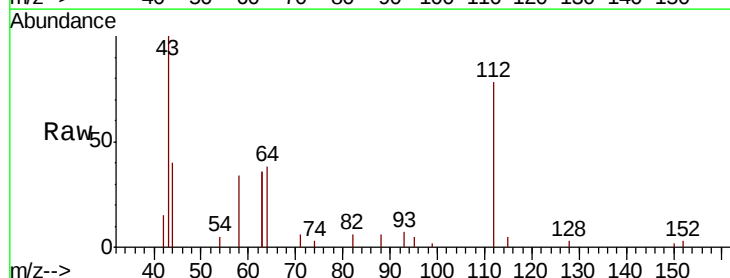
RT: 5.45 min Scan# 224

Delta R.T. 0.01 min

Lab File: BE100562.D

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Tgt Ion:	112	Resp:	5001
Ion	Ratio	Lower	Upper
112	100		
64	57.7	44.1	66.1
63	110.9	86.5	129.7

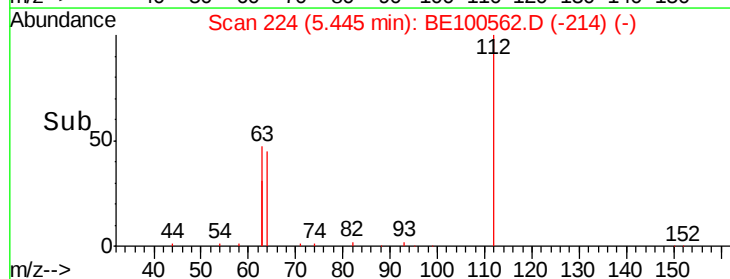
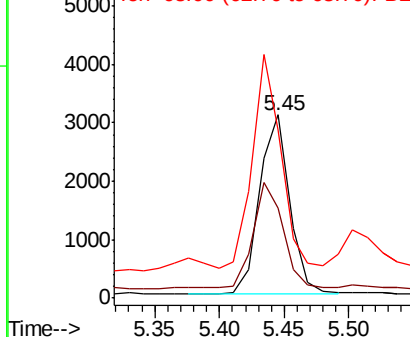


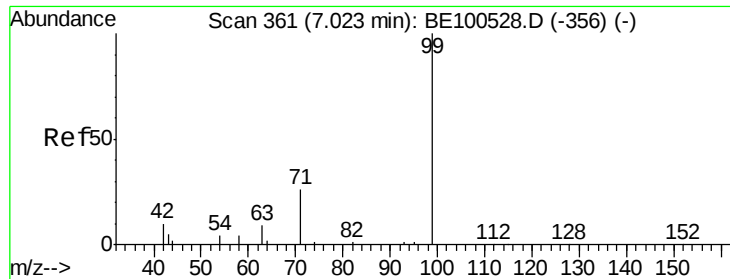
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.376 ng

RT: 7.02 min Scan# 361

Delta R.T. -0.00 min

Lab File: BE100562.D

Acq: 25 Sep 2019 18:28

Instrument :

BNA_E

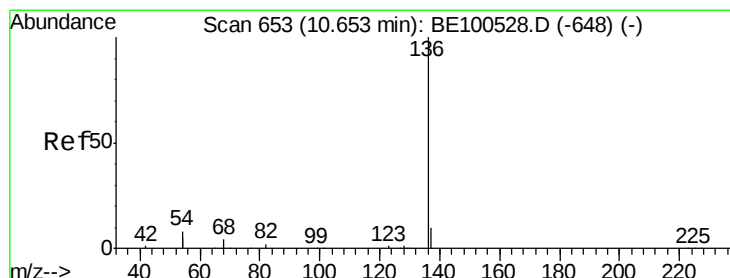
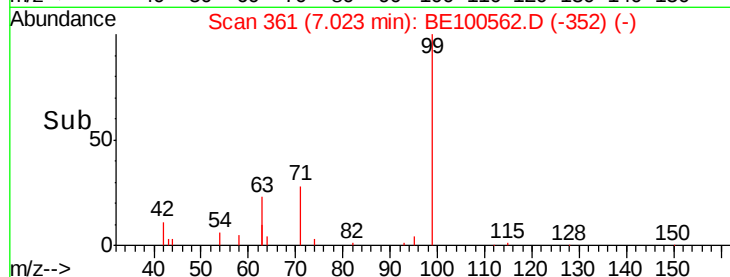
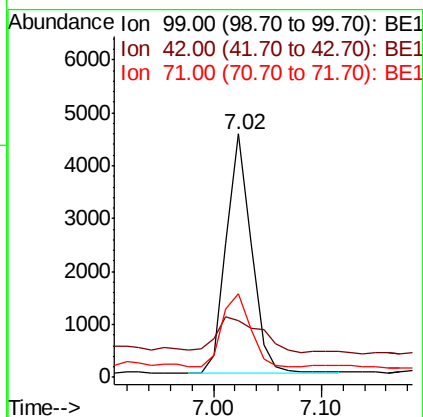
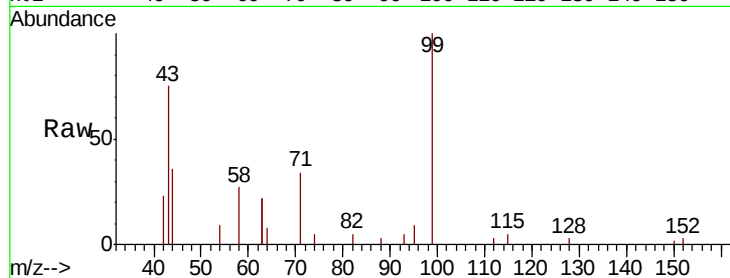
ClientSampleId :

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Tot Ion:	99	Resp:	7301
Ion Ratio	Lower	Upper	
99	100		
42	26.0	13.0	19.6#
71	34.0	23.4	35.0

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#7

Naphthalene-d8

Concen: 0.400 ng

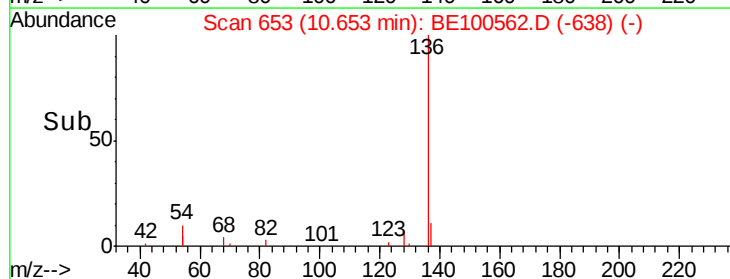
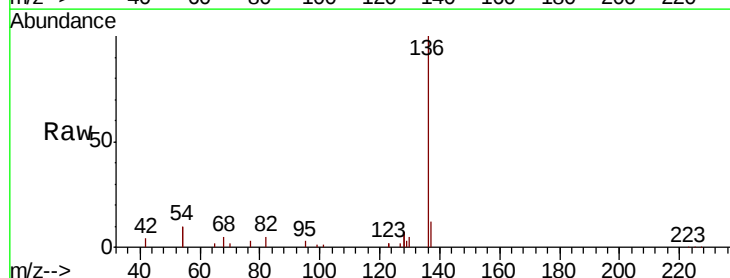
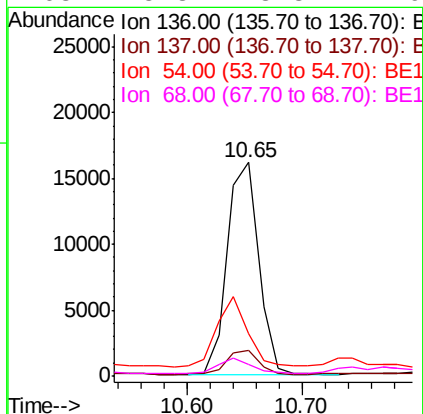
RT: 10.65 min Scan# 653

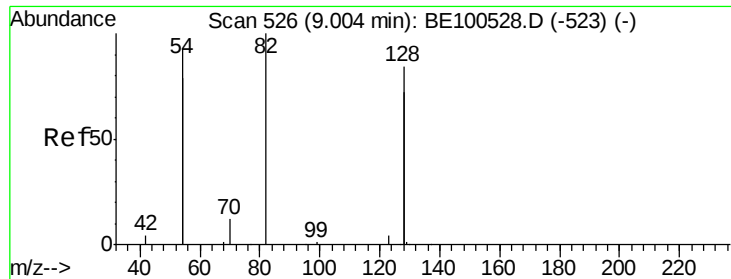
Delta R.T. -0.00 min

Lab File: BE100562.D

Acq: 25 Sep 2019 18:28

Tgt Ion:	136	Resp:	30810
Ion Ratio	Lower	Upper	
136	100		
137	11.7	8.6	13.0
54	19.6	12.4	18.6#
68	5.3	3.3	4.9#





#8

Nitrobenzene-d5

Concen: 0.334 ng

RT: 9.00 min Scan# 526

Delta R.T. -0.00 min

Lab File: BE100562.D

Acq: 25 Sep 2019 18:28

Instrument :

BNA_E

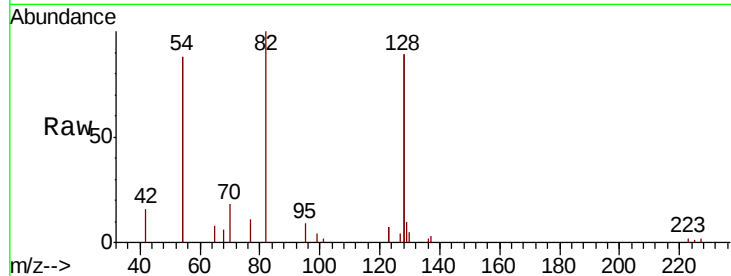
ClientSampleId :

EXT-SW168-091819-1

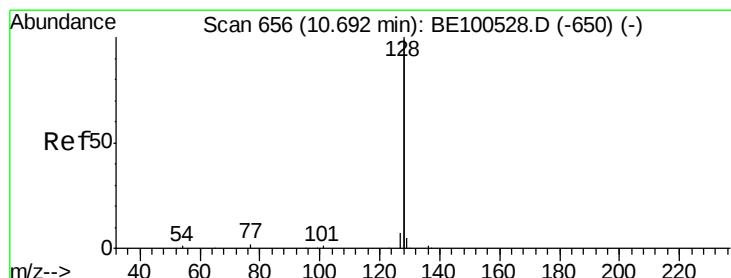
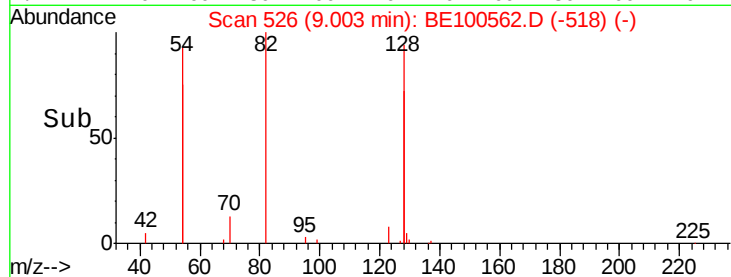
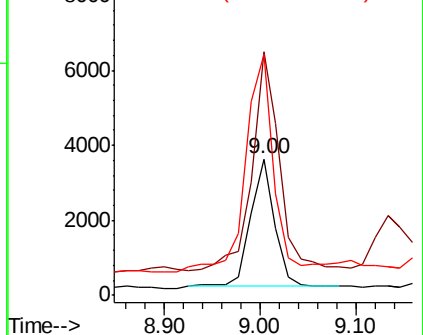
Tot Ion:	82	Resp:	5936
Ion	Ratio	Lower	Upper
82	100		
128	178.8	129.4	194.2
54	176.6	143.3	214.9

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Abundance Ion 82.00 (81.70 to 82.70): BE1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 2.013 ng

RT: 10.69 min Scan# 656

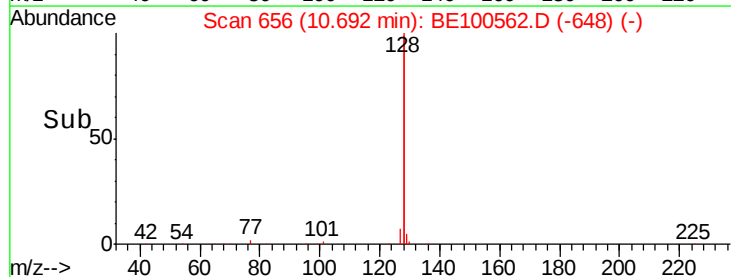
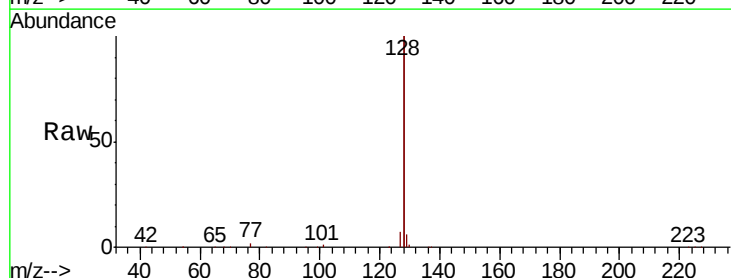
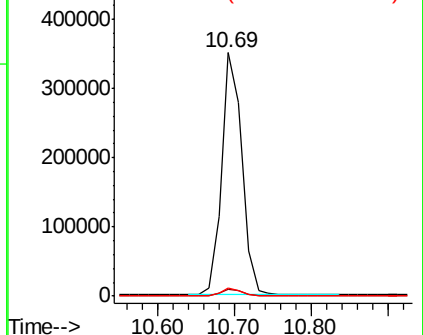
Delta R.T. -0.00 min

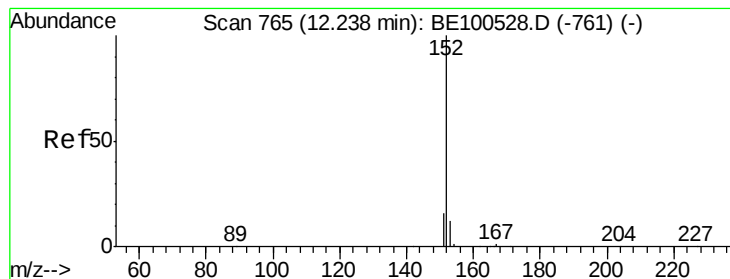
Lab File: BE100562.D

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Tgt Ion:	128	Resp:	643065
Ion	Ratio	Lower	Upper
128	100		
129	2.8	2.2	3.4
127	3.4	2.7	4.1

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





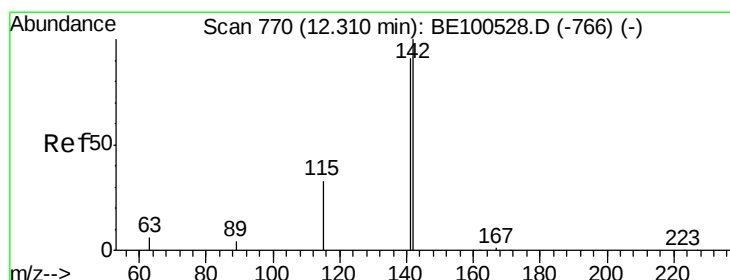
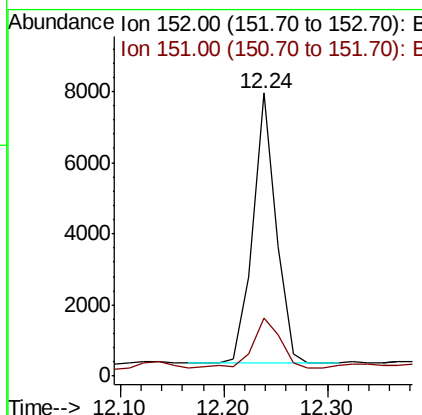
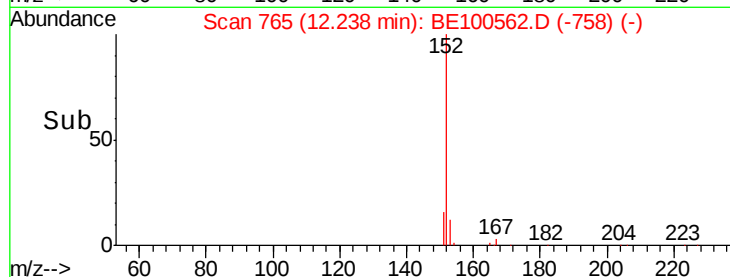
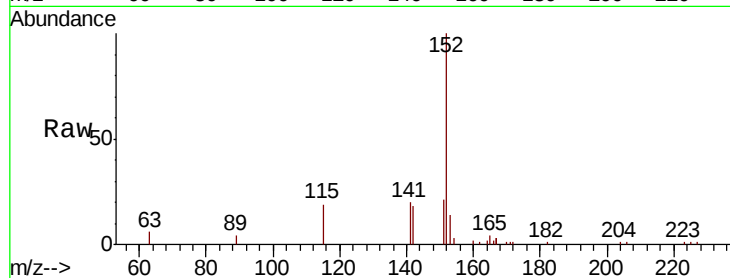
#11
 2-Methylnaphthalene-d10
 Concen: 0.259 ng
 RT: 12.24 min Scan# 765
 Delta R.T. 0.00 min
 Lab File: BE100562.D
 Acq: 25 Sep 2019 18:28

Instrument :
 BNA_E
 ClientSampleId :
 EXT-SW168-091819-1

Tot Ion	Ratio	Lower	Upper
152	100		
151	21.4	15.3	22.9

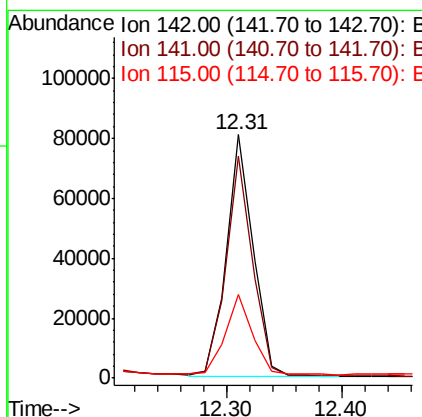
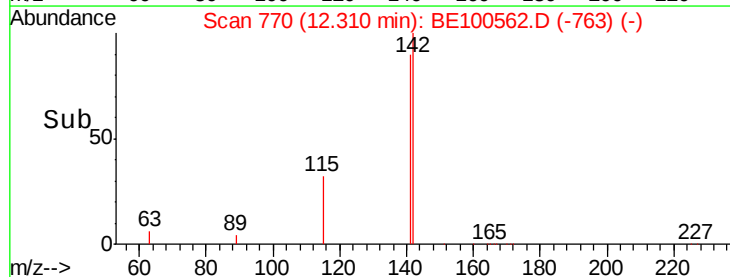
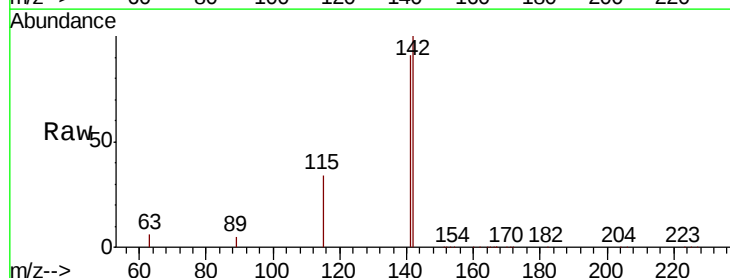
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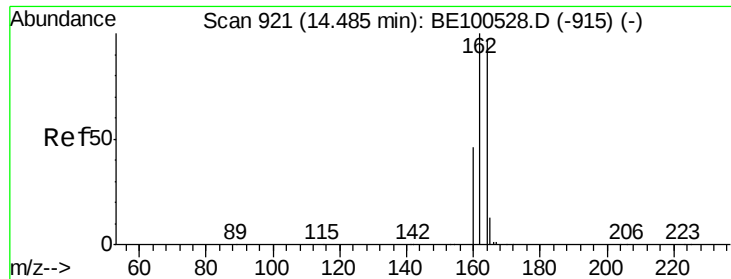
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#12
 2-Methylnaphthalene
 Concen: 2.541 ng
 RT: 12.31 min Scan# 770
 Delta R.T. 0.00 min
 Lab File: BE100562.D
 Acq: 25 Sep 2019 18:28

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.5	108.7
115	34.1	27.2	40.8





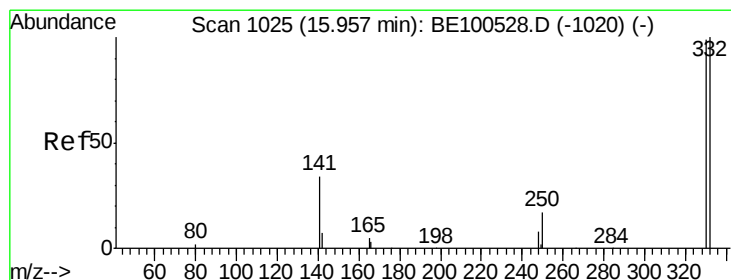
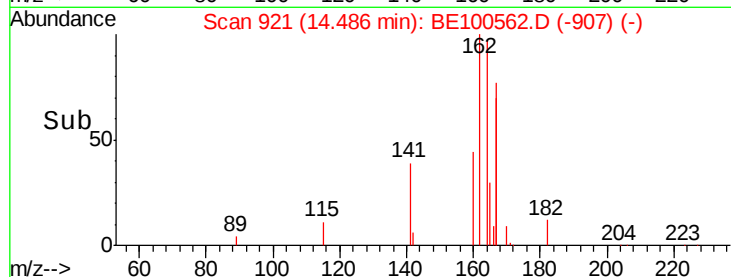
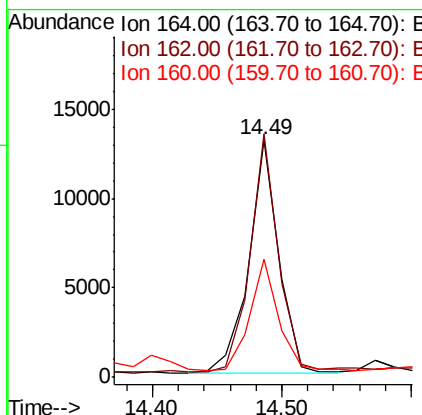
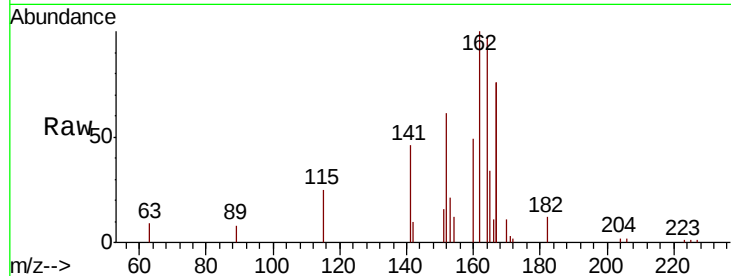
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.49 min Scan# 921
Delta R.T. 0.00 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Instrument :
BNA_E
ClientSampleId :
EXT-SW168-091819-1

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.6	82.1	123.1
160	50.0	37.6	56.4

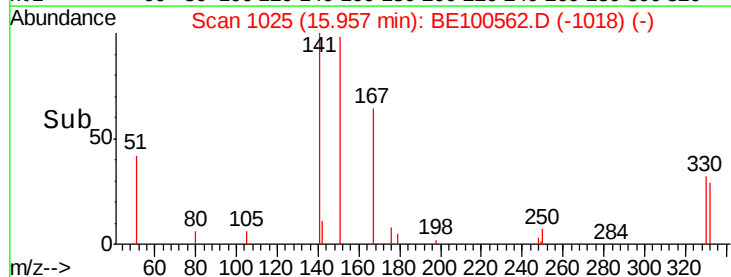
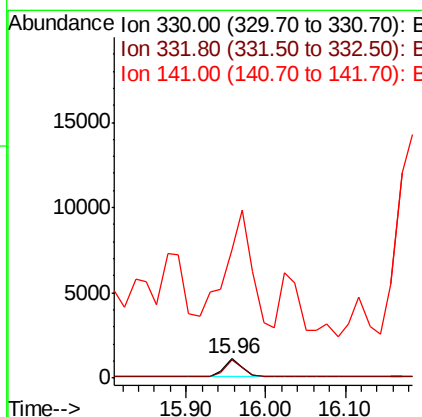
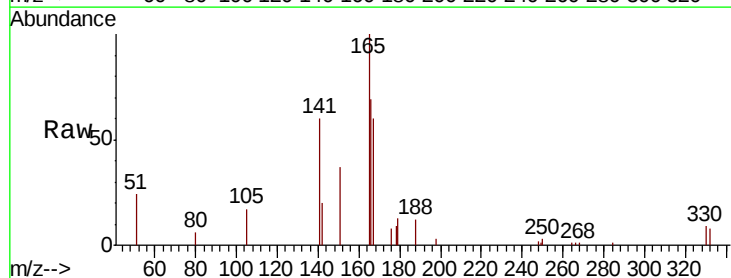
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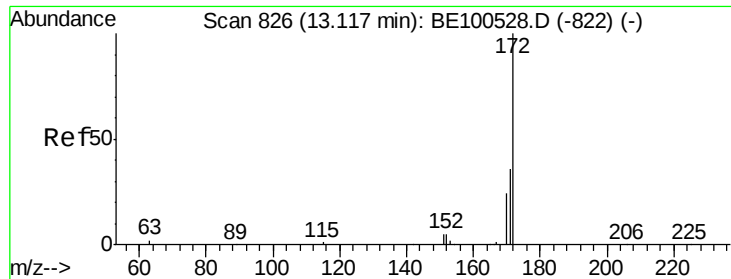
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#14
2,4,6-Tribromophenol
Concen: 0.478 ng
RT: 15.96 min Scan# 1025
Delta R.T. -0.00 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Tgt Ion	Ratio	Lower	Upper
330	100		
332	87.3	75.5	113.3
141	967.7	42.3	63.5#





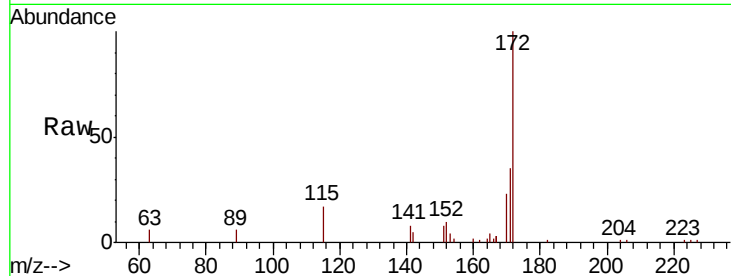
#15
2-Fluorobiphenyl
Concen: 0.192 ng
RT: 13.12 min Scan# 826
Delta R.T. 0.00 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Instrument :
BNA_E
ClientSampleID :
EXT-SW168-091819-1

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.8	43.2
170	23.3	19.4	29.0

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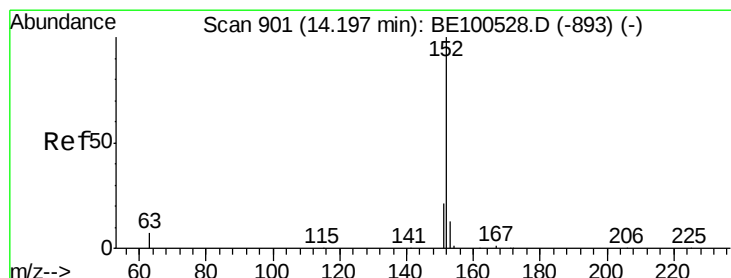
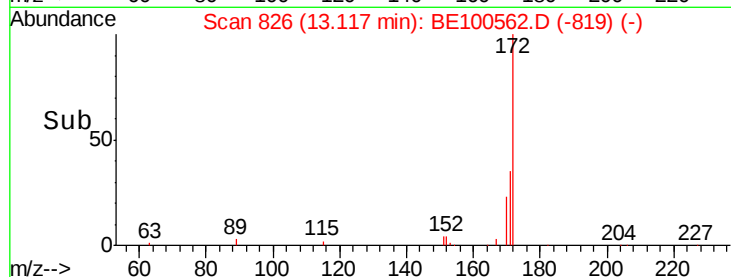
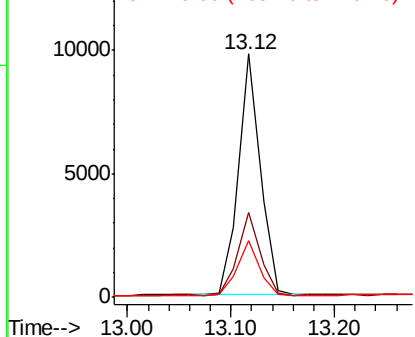


Abundance

Ion 172.00 (171.70 to 172.70): E

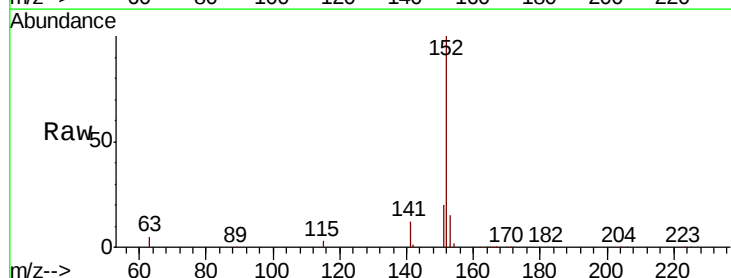
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16
Acenaphthylene
Concen: 12.180 ng
RT: 14.21 min Scan# 902
Delta R.T. 0.01 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.9	23.9
153	14.1	10.7	16.1

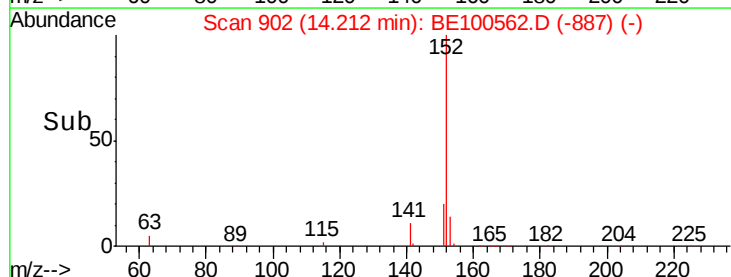
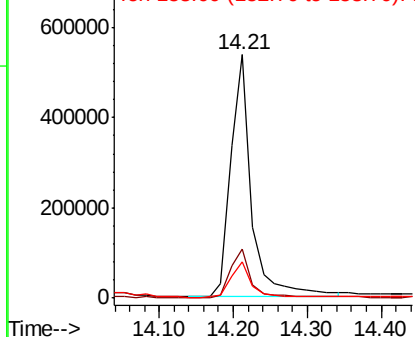


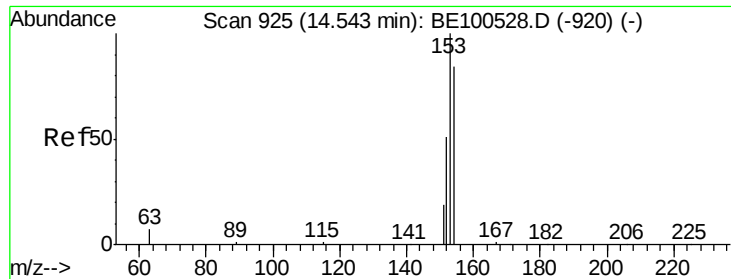
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





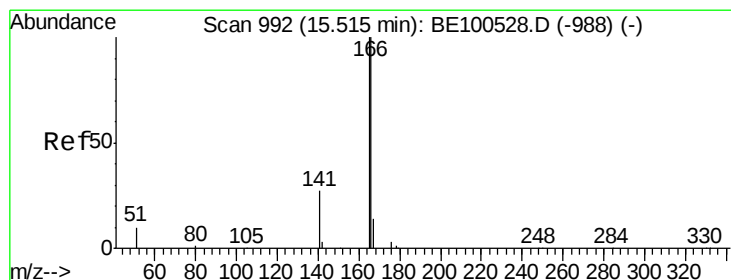
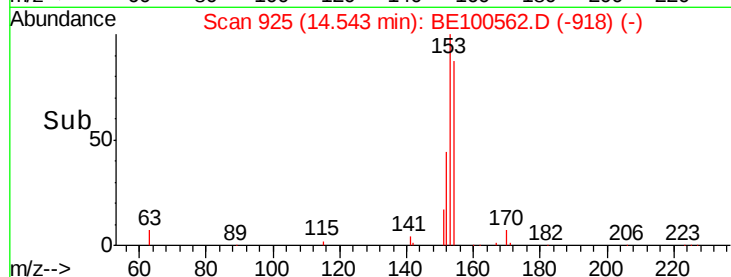
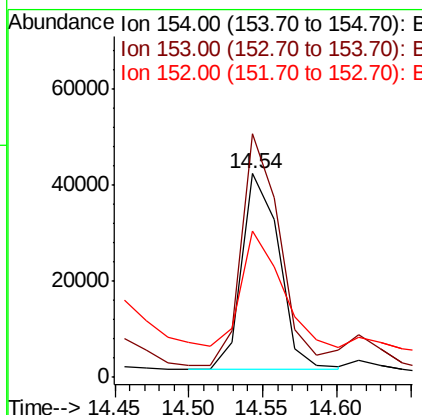
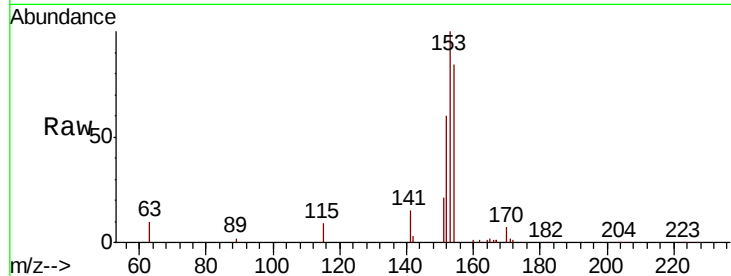
#17
Acenaphthene
Concen: 1.246 ng
RT: 14.54 min Scan# 925
Delta R.T. 0.00 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Instrument :
BNA_E
ClientSampleId :
EXT-SW168-091819-1

Tot Ion	Ratio	Lower	Upper
154	100		
153	123.4	93.7	140.5
152	62.5	47.3	70.9

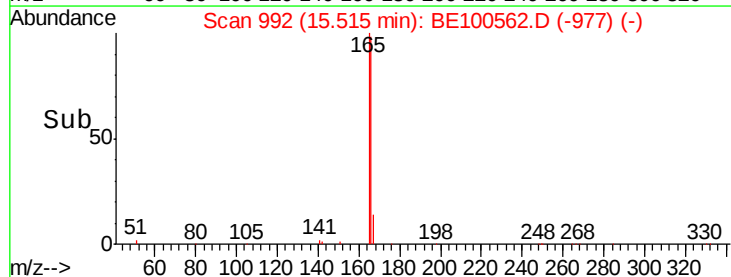
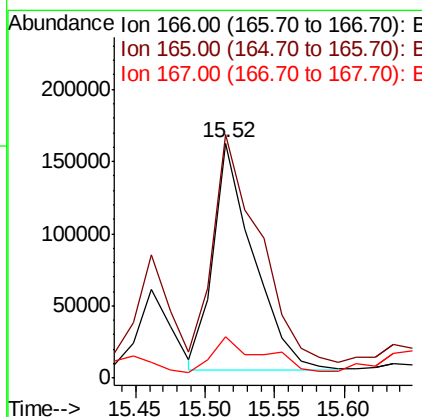
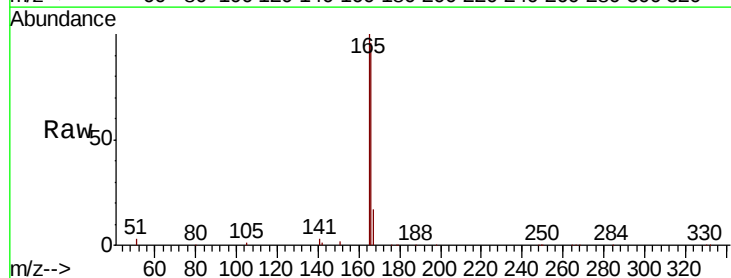
Manual Integrations
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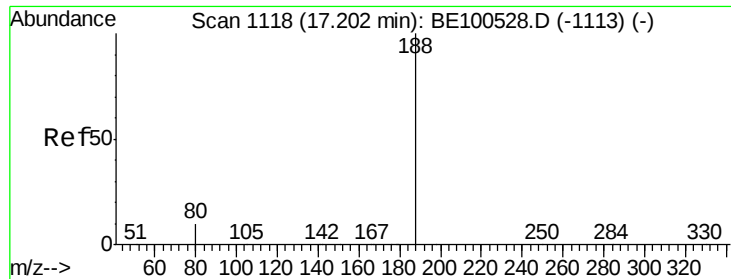
mohammad
9/26/2019 3:55:57 PM



#18
Fluorene
Concen: 4.337 ng
RT: 15.52 min Scan# 992
Delta R.T. -0.00 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Tgt Ion	Ratio	Lower	Upper
166	100		
165	113.7	80.1	120.1
167	19.2	10.9	16.3





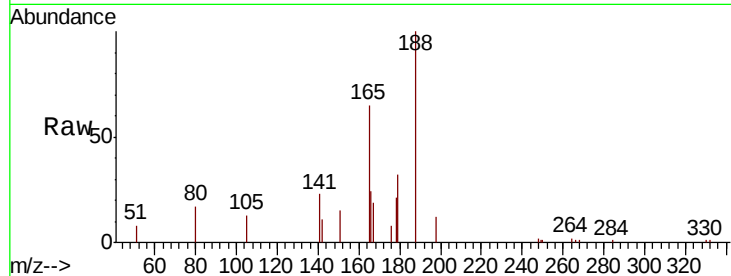
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.20 min Scan# 1118
Delta R.T. -0.00 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Instrument :
BNA_E
ClientSampleId :
EXT-SW168-091819-1

Tot Ion	Ratio	Resp	Lower	Upper
188	100	38756		
94	0.0	0.0	0.0	
80	17.4	8.0	12.0	

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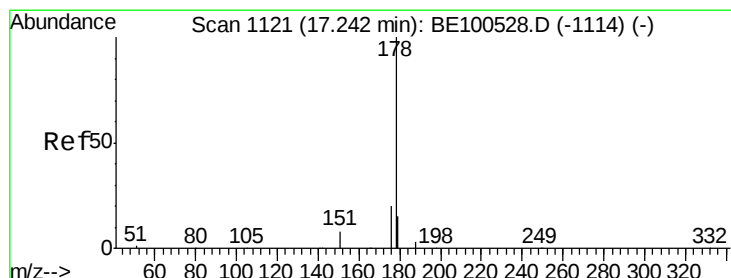
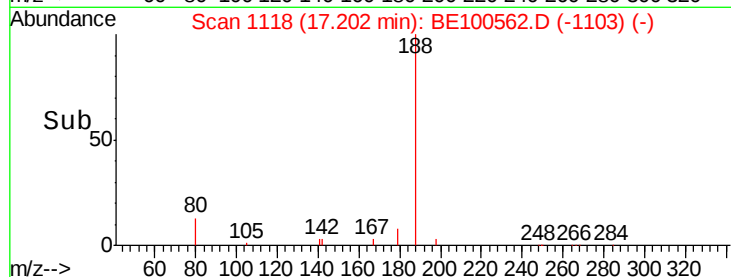
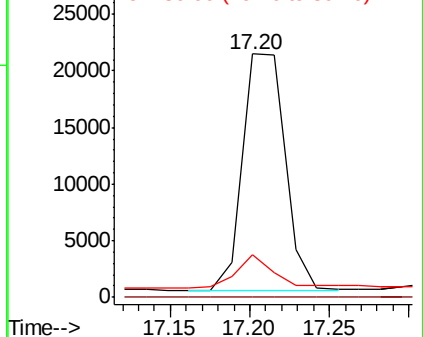


Abundance

Ion 188.00 (187.70 to 188.70): E

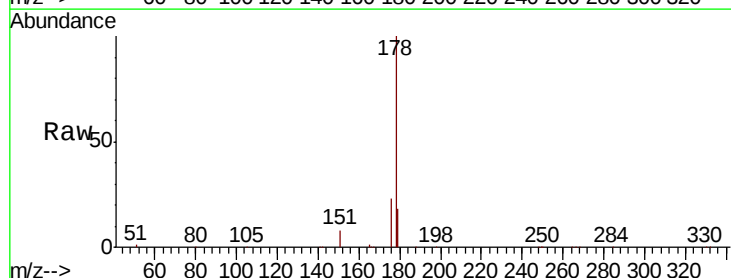
Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



#23
Phenanthrene
Concen: 39.539 ng
RT: 17.26 min Scan# 1122
Delta R.T. 0.01 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	4269762		
176	21.7	15.4	23.2	
179	17.3	12.6	18.8	

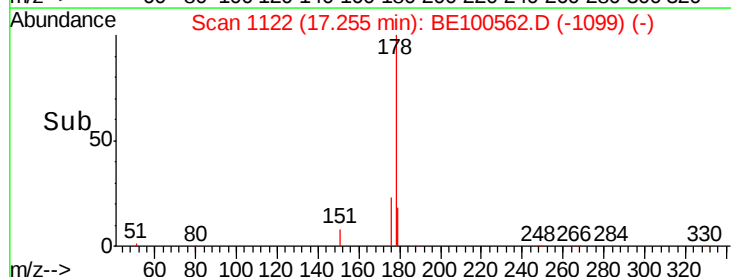
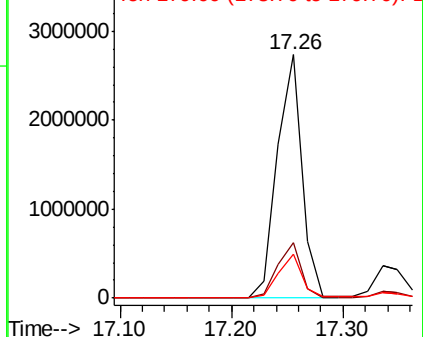


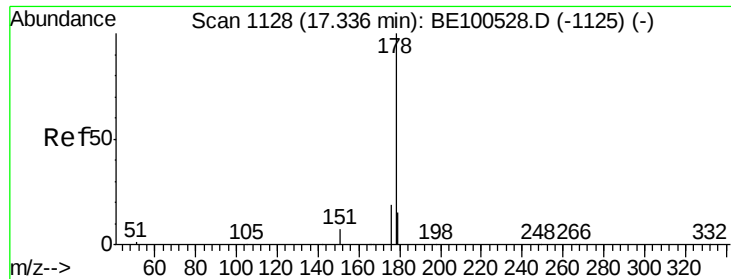
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





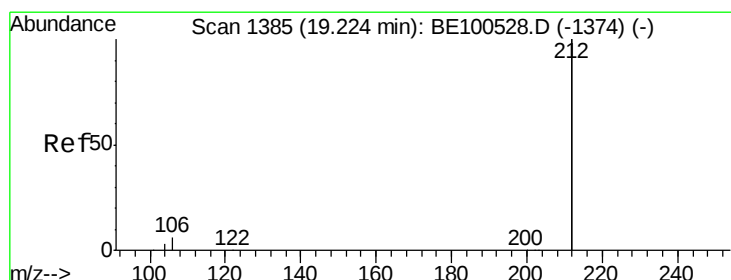
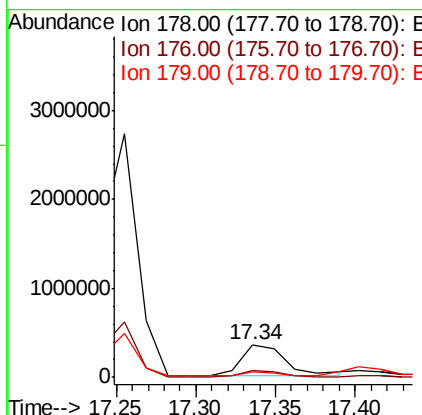
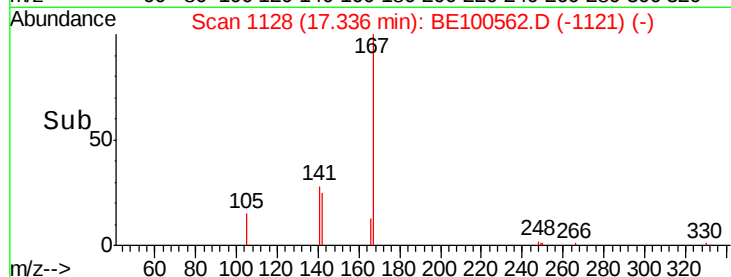
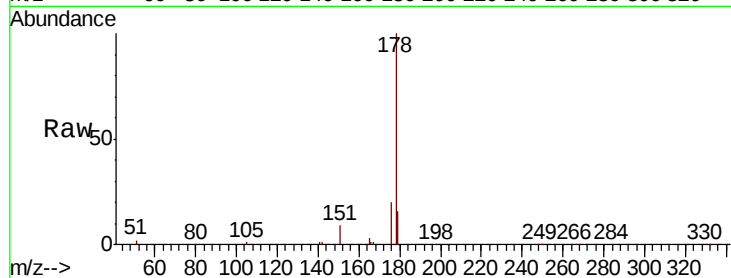
#24
 Anthracene
 Concen: 7.803 ng
 RT: 17.34 min Scan# 1128
 Delta R.T. -0.00 min
 Lab File: BE100562.D
 Acq: 25 Sep 2019 18:28

Instrument :
 BNA_E
 ClientSampleId :
 EXT-SW168-091819-1

Tot Ion:178	Resp:	709288
Ion Ratio	Lower	Upper
178	100	
176	17.7	15.2 22.8
179	12.6	12.2 18.4

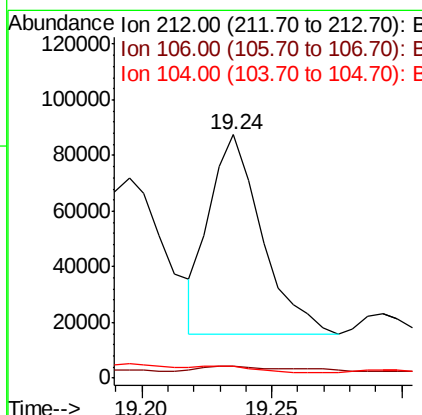
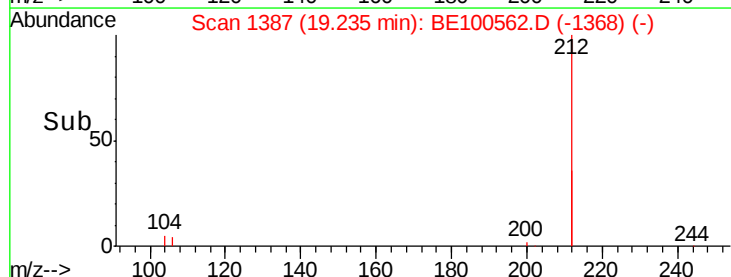
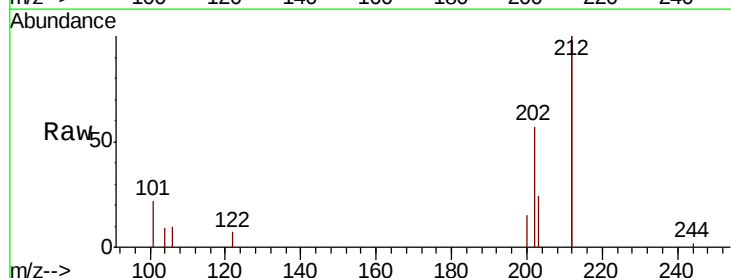
Manual Integrations
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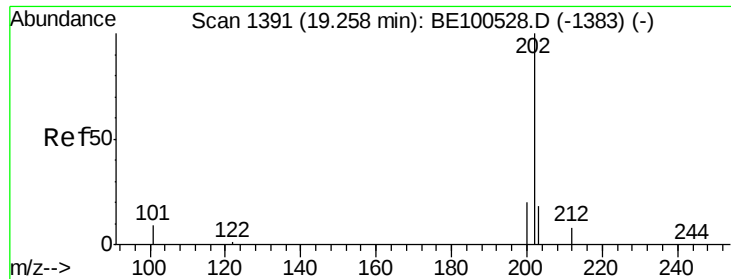
mohammad
 9/26/2019 3:55:57 PM



#25
 Fluoranthene-d10
 Concen: 0.218 ng
 RT: 19.24 min Scan# 1387
 Delta R.T. 0.01 min
 Lab File: BE100562.D
 Acq: 25 Sep 2019 18:28

Tgt Ion:212	Resp:	100668
Ion Ratio	Lower	Upper
212	100	
106	2.7	2.3 3.5
104	3.4	1.3 1.9#





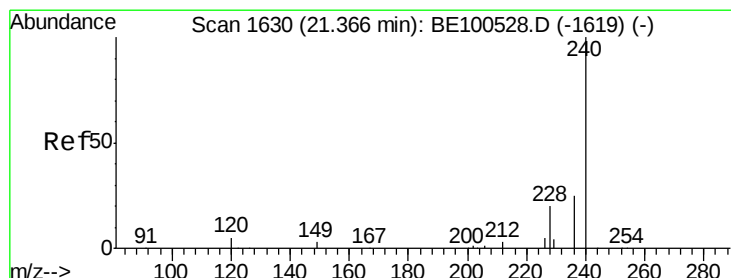
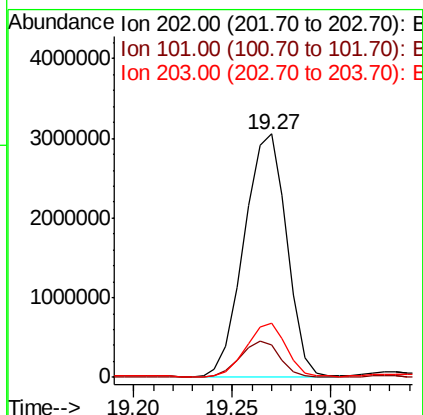
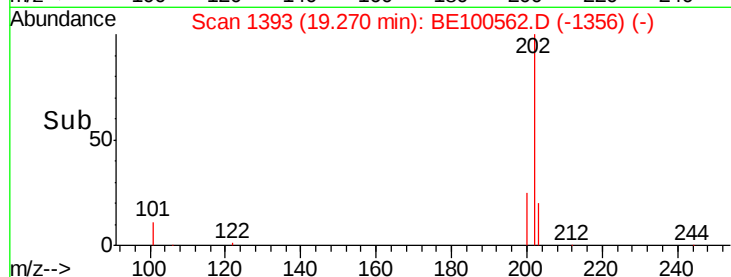
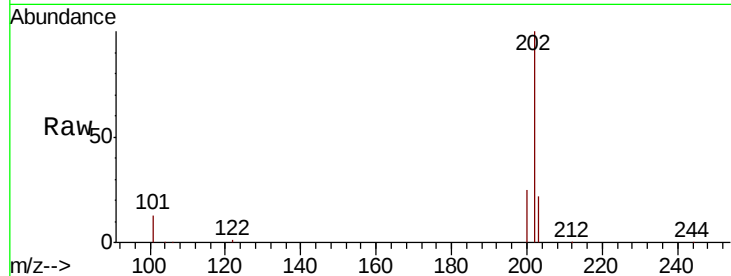
#26
Fluoranthene
Concen: 35.206 ng m
RT: 19.27 min Scan# 1393
Delta R.T. 0.01 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Instrument :
BNA_E
ClientSampleId :
EXT-SW168-091819-1

Tot Ion:202 Resp: 4584708
Ion Ratio Lower Upper
202 100
101 1.1 8.8 13.2#
203 2.0 13.7 20.5#

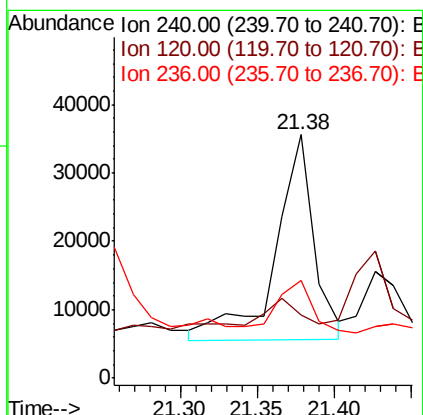
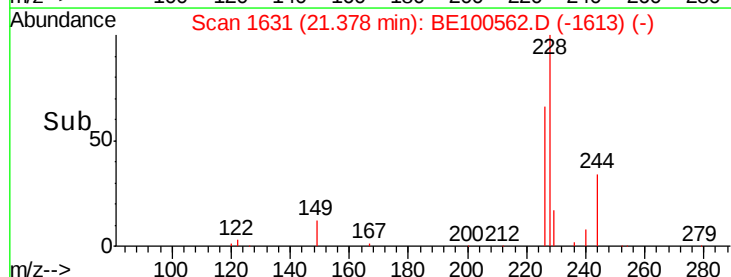
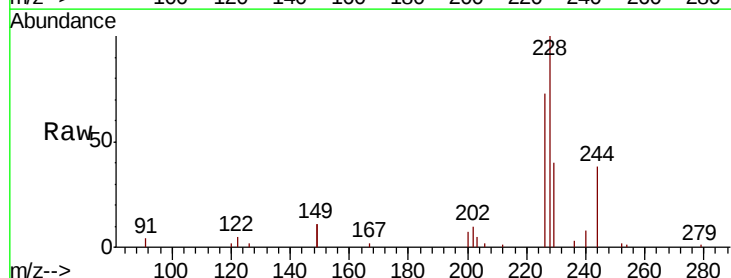
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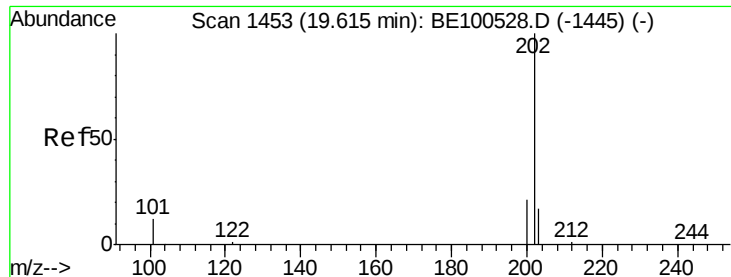
mohammad
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#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.38 min Scan# 1631
Delta R.T. 0.01 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Tgt Ion:240 Resp: 52236
Ion Ratio Lower Upper
240 100
120 25.8 4.5 6.7#
236 40.2 20.6 30.8#





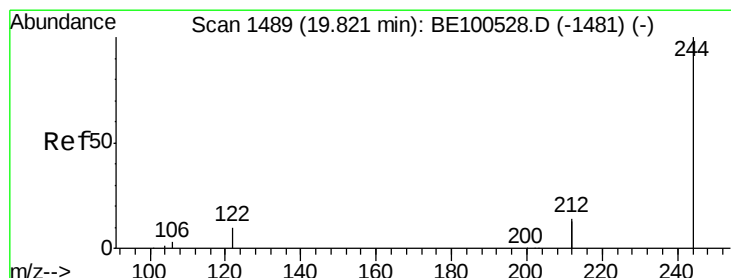
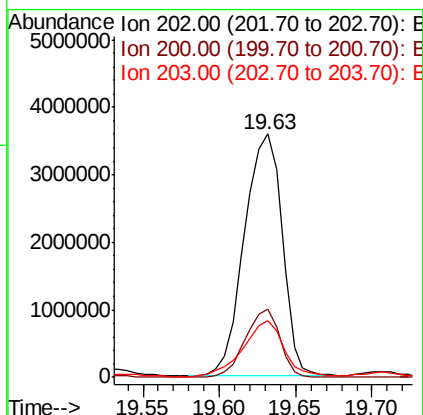
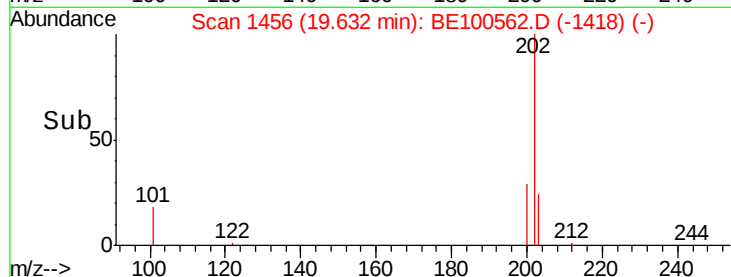
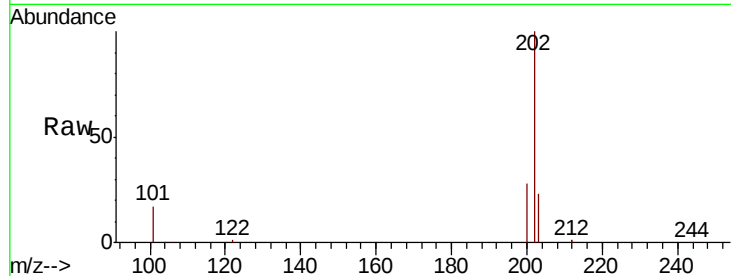
#28
Pvrene
Concen: 40.928 ng
RT: 19.63 min Scan# 1456
Delta R.T. 0.02 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Instrument :
BNA_E
ClientSampleId :
EXT-SW168-091819-1

Tot Ion:202 Resp: 6151467
Ion Ratio Lower Upper
202 100
200 25.4 16.6 25.0#
203 24.6 14.0 21.0#

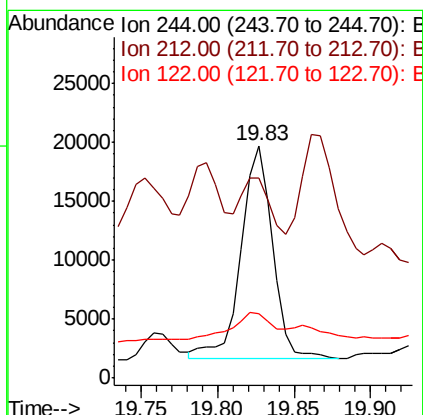
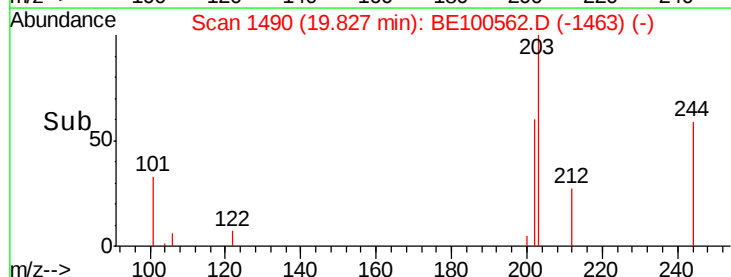
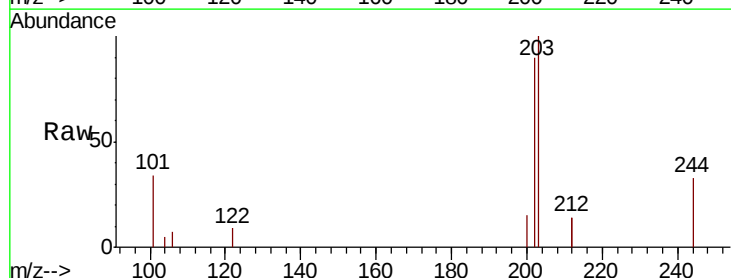
Manual Integrations
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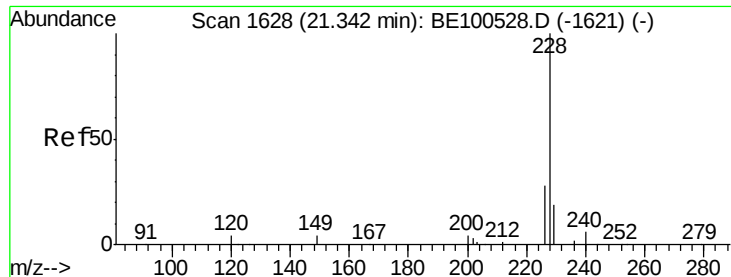
mohammad
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#29
Terphenyl-d14
Concen: 0.209 ng
RT: 19.83 min Scan# 1490
Delta R.T. 0.01 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Tgt Ion:244 Resp: 25837
Ion Ratio Lower Upper
244 100
212 85.9 22.2 33.2#
122 27.5 8.3 12.5#





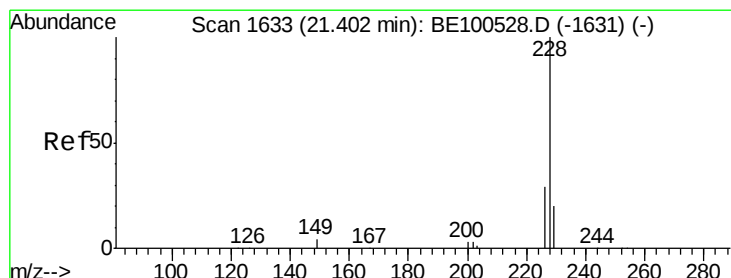
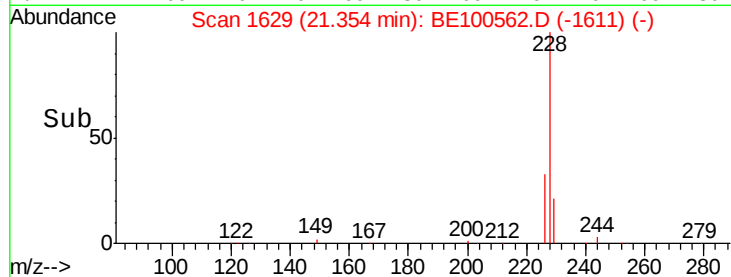
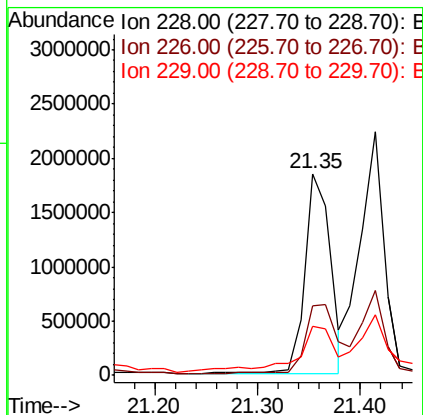
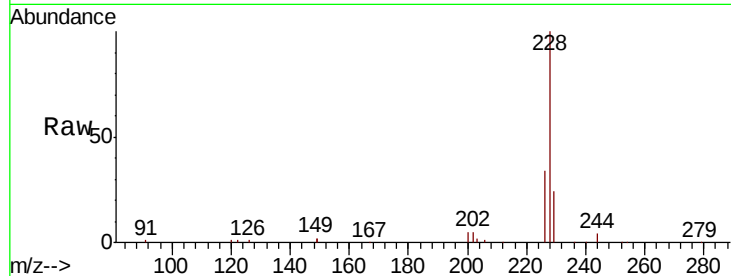
#30
Benzo(a)anthracene
Concen: 22.873 ng
RT: 21.35 min Scan# 1629
Delta R.T. 0.01 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Instrument :
BNA_E
ClientSampleId :
EXT-SW168-091819-1

Tot Ion:228 Resp: 3191112
Ion Ratio Lower Upper
228 100
226 34.5 22.5 33.7#
229 24.4 15.4 23.2#

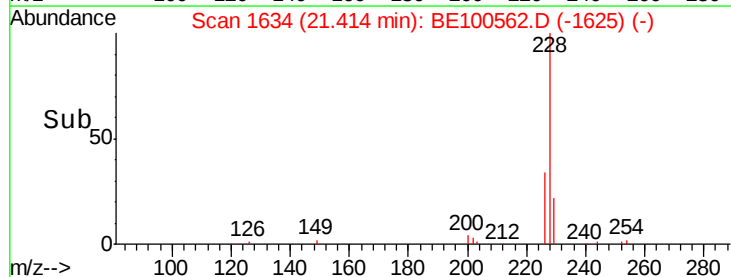
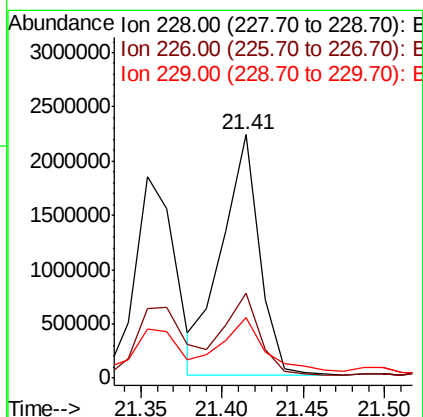
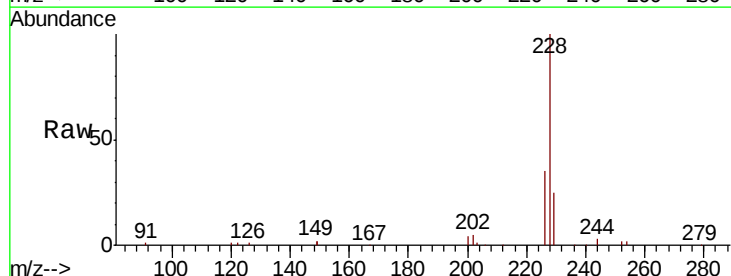
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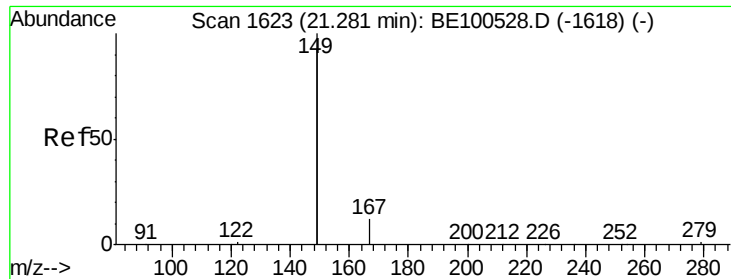
mohammad
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#31
Chrysene
Concen: 22.553 ng m
RT: 21.41 min Scan# 1634
Delta R.T. 0.01 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Tgt Ion:228 Resp: 3585183
Ion Ratio Lower Upper
228 100
226 34.8 23.3 34.9
229 24.7 16.3 24.5#





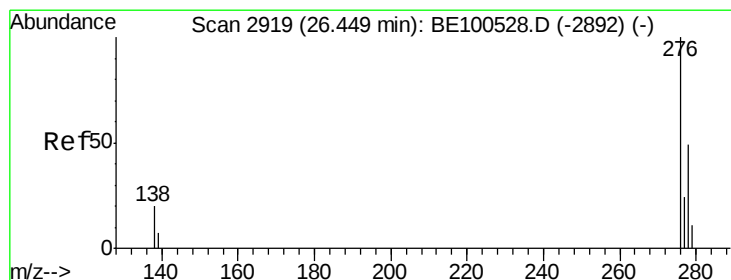
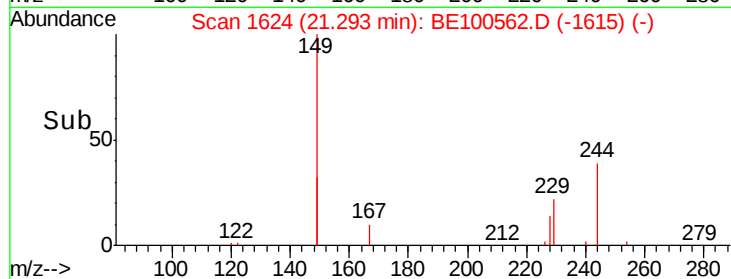
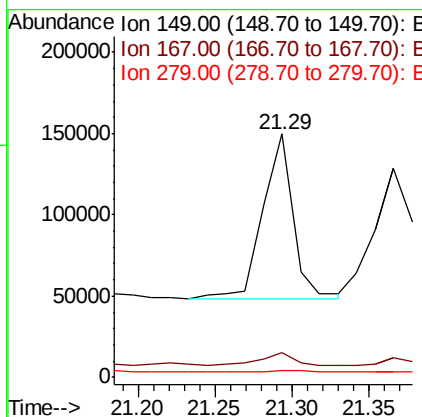
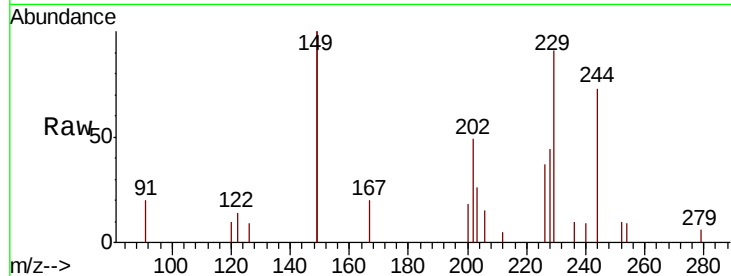
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.937 ng
 RT: 21.29 min Scan# 1624
 Delta R.T. 0.01 min
 Lab File: BE100562.D
 Acq: 25 Sep 2019 18:28

Instrument :
 BNA_E
 ClientSampleId :
 EXT-SW168-091819-1

Tot Ion	Ratio	Resp	Lower	Upper
149	100	140971		
167	8.3	5.2	7.8#	
279	1.1	1.0	1.4	

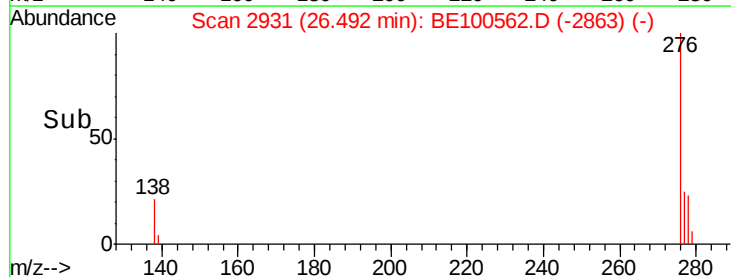
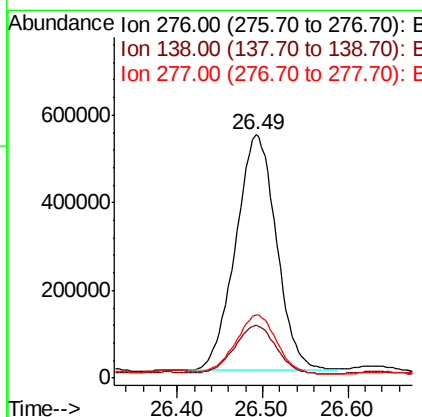
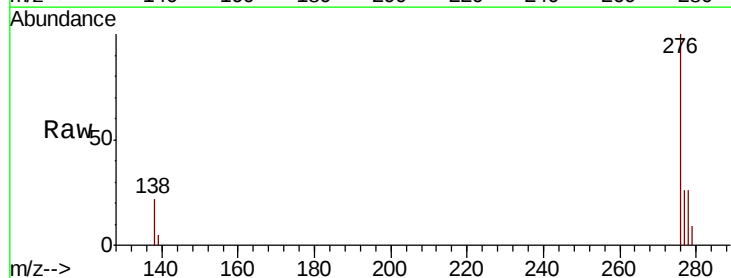
Manual Integrations
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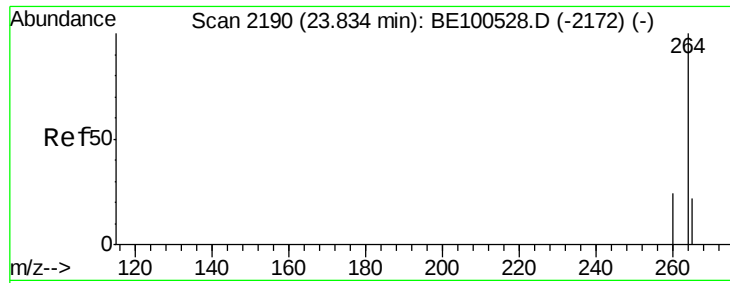
mohammad
 9/26/2019 3:55:57 PM



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 10.126 ng
 RT: 26.49 min Scan# 2931
 Delta R.T. 0.04 min
 Lab File: BE100562.D
 Acq: 25 Sep 2019 18:28

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	1789658		
138	21.0	17.7	26.5	
277	25.3	19.9	29.9	





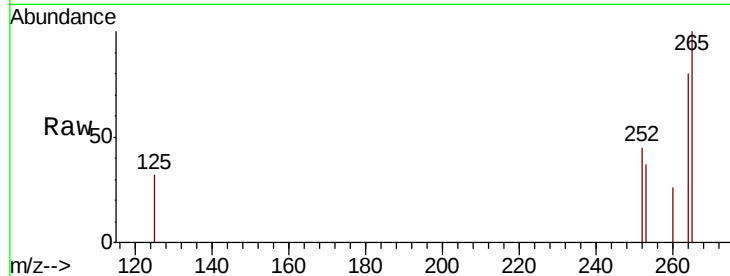
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.86 min Scan# 2197
Delta R.T. 0.02 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Instrument :
BNA_E
ClientSampleId :
EXT-SW168-091819-1

Tot Ion	Ratio	Lower	Upper
264	100		
260	32.8	19.6	29.4#
265	125.1	21.8	32.8#

Manual Integrations
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Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

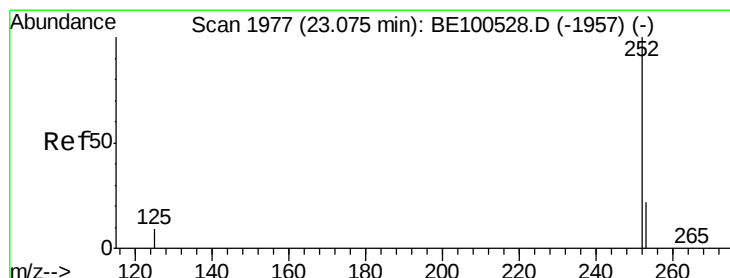
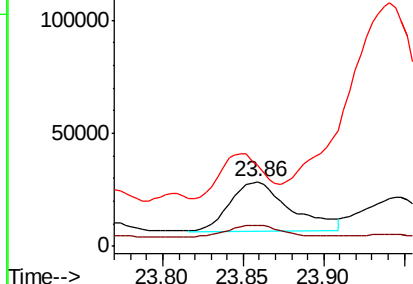
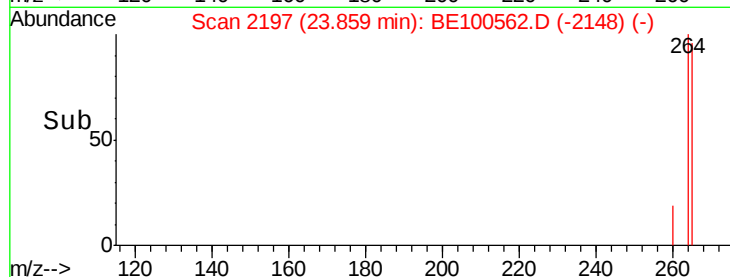
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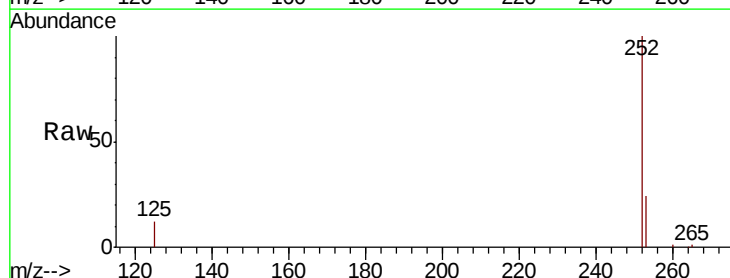
0

Time-->



#35
Benzo(b)fluoranthene
Concen: 20.795 ng m
RT: 23.10 min Scan# 1985
Delta R.T. 0.03 min
Lab File: BE100562.D
Acq: 25 Sep 2019 18:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.1	27.1
125	12.1	8.0	12.0#



Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

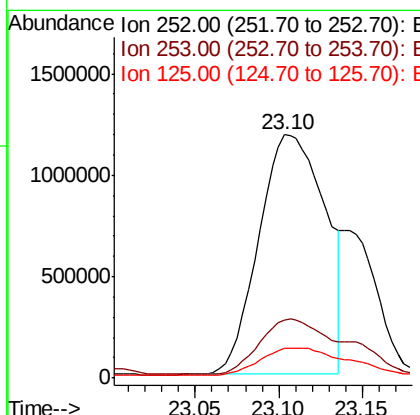
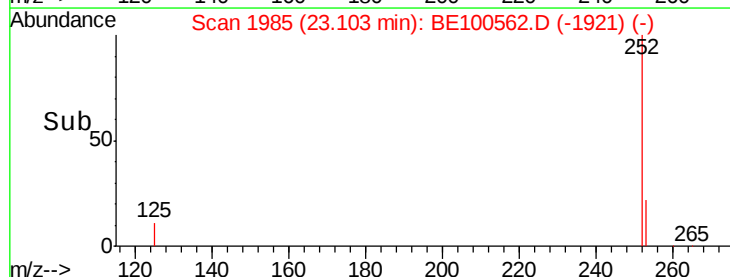
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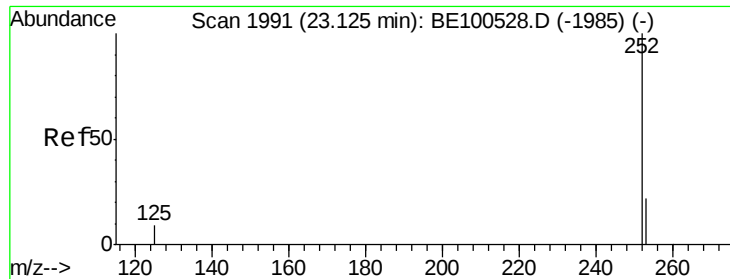
1000000

500000

0

Time-->





#36

Benzo(k)fluoranthene

Concen: 5.587 ng m

RT: 23.14 min Scan# 1994

Delta R.T. 0.01 min

Lab File: BE100562.D

Acq: 25 Sep 2019 18:28

Instrument :

BNA_E

ClientSampleId :

EXT-SW168-091819-1

Tot Ion:252 Resp: 1010421

Ion Ratio Lower Upper

252 100

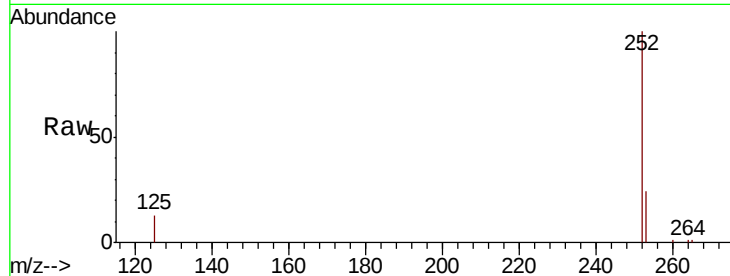
253 24.2 17.9 26.9

125 13.0 8.5 12.7#

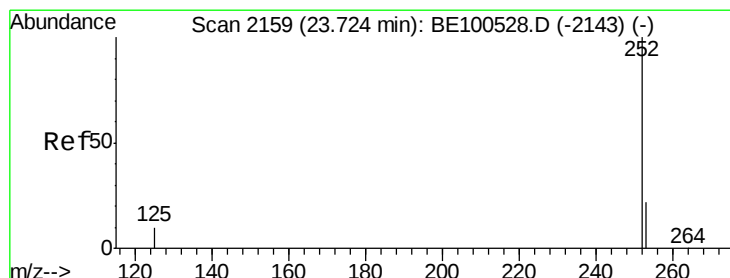
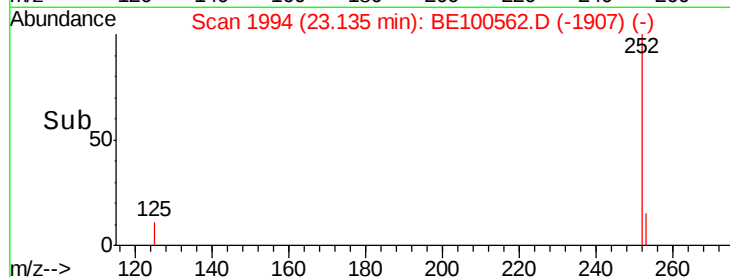
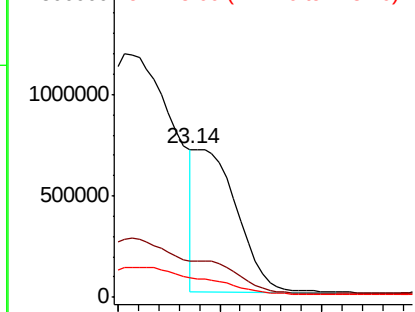
Manual Integrations
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#37

Benzo(a)pyrene

Concen: 19.543 ng

RT: 23.75 min Scan# 2167

Delta R.T. 0.03 min

Lab File: BE100562.D

Acq: 25 Sep 2019 18:28

Tgt Ion:252 Resp: 2849786

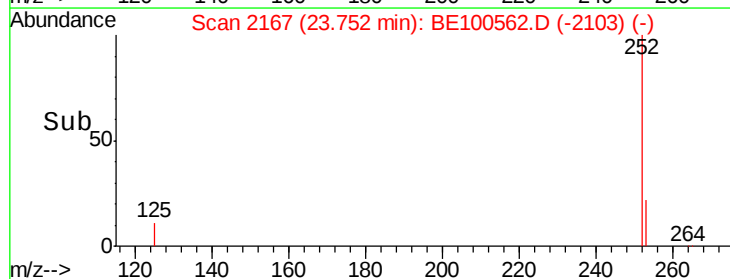
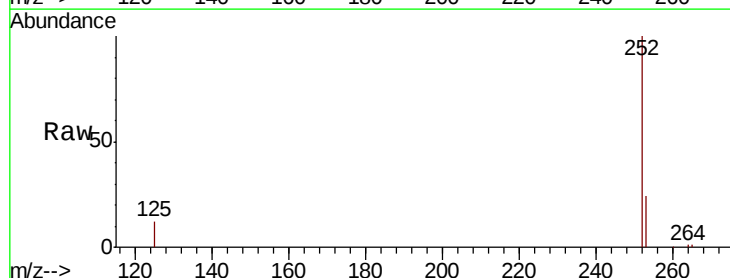
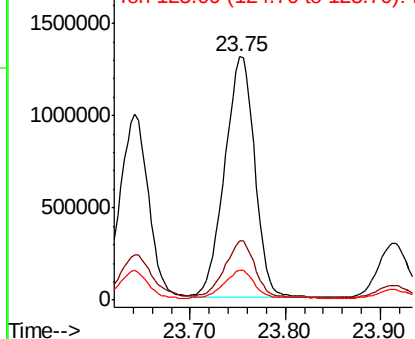
Ion Ratio Lower Upper

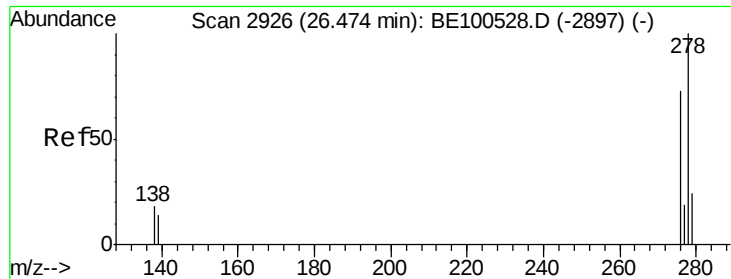
252 100

253 24.1 18.1 27.1

125 12.3 9.2 13.8

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 3.466 ng

RT: 26.51 min Scan# 2935

Delta R.T. 0.03 min

Lab File: BE100562.D

Acq: 25 Sep 2019 18:28

Instrument :

BNA_E

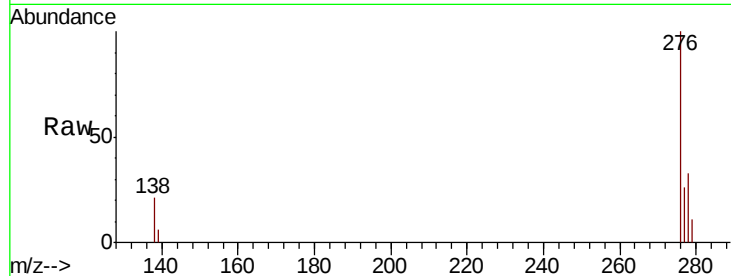
ClientSampleId :

EXT-SW168-091819-1

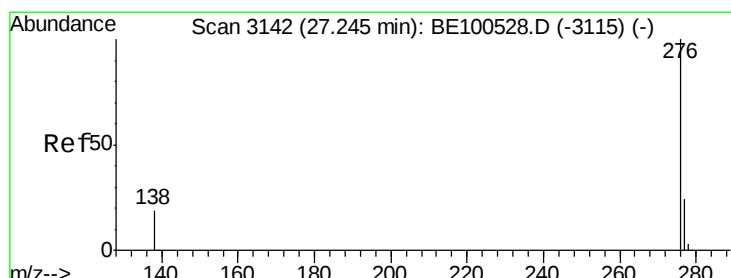
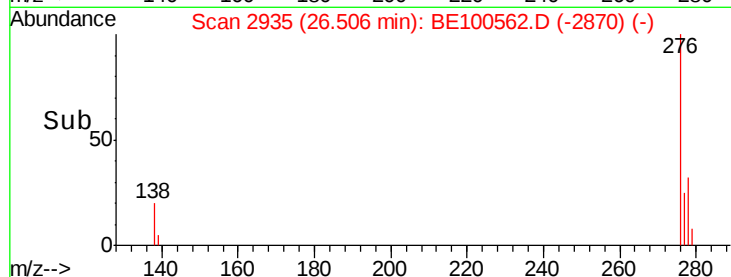
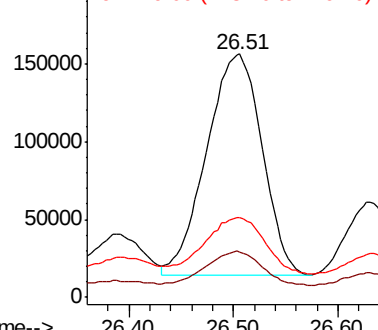
Tot Ion:	278	Resp:	526381
Ion Ratio	Lower	Upper	
278	100		
139	18.8	11.6	17.4#
279	33.0	19.7	29.5#

Manual Integrations
APPROVED

mohammad
9/26/2019 3:55:57 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#39

Benzo(g,h,i)perylene

Concen: 12.891 ng

RT: 27.31 min Scan# 3160

Delta R.T. 0.06 min

Lab File: BE100562.D

Acq: 25 Sep 2019 18:28

Tgt Ion:	276	Resp:	2044818
Ion Ratio	Lower	Upper	
276	100		
277	25.0	19.2	28.8
138	21.7	15.7	23.5

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

